in the	IED SIA	IES PATE	NIAN	RADEMA	OFFICE	PATENT APP	PLICATION
t ·			فكوا	Group Art U	nit 2813		2 6
Inventor(s): MANABE et al.				Examiner:	K. Christiar	ISOIT	200
Appln. No.: <u>09</u>	783,035			Atty. Dkt.	P 276665	F01-243-US	Sdiv
Series Code ↑	Serial No. ↑	LAE S		A 1	M#	Client Ref	. 2
Filed: February 15, 2001	/ 0		Ä	Appln. Title:			
Hon. Commissioner of Patents	1	DE SE SOUS	ř		GALLIUM INDIU		
Washington, D.C. 20231	/ / A	J0 -	Ž.		COMPOUND SE		
	3	يمني			DEVICE HAVIN		VED 3
Sir:		24 TRANSPAR	•		LUMINOUS INT		(1) (2)
REPLY/AMENDME	NT/LETTER			Date:	August 26, 2002		(%)
This is a reply/amendment/letter in the above-identified application and includes the herewith attachment of same date and subject, which is incorporated hereinto by reference and the signature below is treated as the signature to the attachment in absence of a signature thereto. FEE REQUIREMENTS FOR CLAIMS AS AMENDED							
1. Small Entity claim							
A. NOT made For B & C	Claims	Highest nun	nber	Present Extra	Large/Small Entity	Additional	Fee Code
B. Withdrawn C. made herewith See Required Separate Paper	remaining after amendment	previously pa	id for			Fee	1
D. made previously (Pat-256)	amenument						Lg/Sm
2. Total Effective Claims	6	**minus .	20	0	x \$18/\$9 =	+ \$0	103/203
3. Independent Claims	4	***minus	3	1	x \$84/\$42 =	+ \$84	102/202
If amendment enters proper multi	nle denendent c			olication for first	χ ψ0+/ψ+2 -	1 404	102,202
time (leave <u>blank</u> if this is a <u>reissue</u>					+ \$280/\$140 =	+ \$0	104/204
5. Original due Date:	apphoanon,	NONE			7207 7 10		7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7
6. Petition is hereby made to exter	nd the original di		1 mo)	\$110/\$55 =	a magazina a kensa ng Pelakupuna maning		115/215
date to cover the date this response			mos)	\$400/\$200 =	+ \$0		116/216
requisite fee is attached			mos)	\$920/\$460 =	4.0		117/217
			mos)	\$1,440/\$720=			118/218
			mos)	\$1,960/\$980=			128/228
7. Enter any previous extension fee	paid since abov	e original du	e date	and subtract	- \$0	. The	
8.					Extension Fee	+ \$0	Aug v.
9. If Terminal Disclaimer attached,	add Rule 20(d)	official fee			+ \$110/\$55	+ \$0	148/248
10. If IDS attached requires Official					+ \$180	. 60	126
or if Rule 97(d) Request				add	+ \$180	+ \$0	126
11. After-Final Request Fee per rules 129(a) and 17(r)					+ \$740/370	+ \$0	146/246
12, No. of additional inventions for e	xamination per	Rule 129(b)			x \$740/370 ea	+ \$0	149/249
13. Request for Continued Examination (RCE)					+ \$740/370	+ \$0	1179/1279
14. Petition fee for						+ \$0	
15.					TOTAL FEE =	\$84	
16. *If the entry in this space is less than entr	y in next space, the	"Present Extra"	result is	s "0".		PLEASE C	HADGE
17. **If the "Highest number previously paid	•			•		OUR DEP.	
18. Will the Frighest number previously paid for in this space is less than 3, write 3 in this space.							
			Our	Deposit Account Order No. 031	No. 03-3975)		
			(Oui	Older No031	317 276665 C# M#		
CHARGE STATEMENT: The Commissioner is he	ereby authorized to ch	arge any fee spec	cifically a	uthorized hereafter, or a			rted to be
filed, or which should have been filed herewith or concerning any paper filed hereafter, and which may be required under Rules 16-18 (missing or insufficiencies only) now or							
hereafter relative to this application and the resulting Official Document under Rule 20, or credit any overpayment, to our Accounting/Order Nos. shown above, for which purpose a duplicate copy of this sheet is attached.							
This CHARGE STATEMENT does not authorize charge of the issue fee until/unless an issue fee transmittal sheet is Query: Is appeal deadline now? If							
filed.					so, file Notice		
	Pillsbury	Winthrop LL	.P				
	Intellectu	al Property					
P.O. Box 10500 > 2	By Atty:	Kenneth M.	<u>Fagi</u> n		Reg. No.	37,615	
P.O. Box 10500 McLean, VA 22102 Tel: (703) 905-2000 Attv/Sec: KMF/JCC		0.9	en	0			
Tel: (703) 905-2000	Sig:		-w	2/2	Fax:	(703) 905-2	
ATTURES: KMEURO III	5			U	Tel:	(703) 905-2	2066
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NOTE: File this pover sheet in duplicate with PTO receipt (PAT-103A) and attachments							



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re PATENT APPLICATION of

Confirmation No. 6867

MANABE et al.

Group Art Unit: 2813

Application No. 09/783,035

SER SOLLER SONS Examiner: K. Christianson

Filed: February 15, 2001

Title: LIGHT-EMITTING ALUMINUM GALLIUM INDIUM

NITRIDE COMPOUND SEMICONDUCTOR DEVICE HAVING AN IMPROVED LUMINOUS INTENSITY

August 26, 2002

FIFTH PRELIMINARY AMENDMENT

Hon. Commissioner of Patents Washington, D.C.

Dear Sir:

Prior to further consideration on the merits, please add claims 20 and 21 as follows:

20. (New) A method for producing a light-emitting semiconductor device, said method comprising:

forming a substrate;

forming a buffer layer on said substrate;

forming an N-layer of N-type nitrogen-III Group compound semiconductor satisfying the formula $A1_xGa_yIn_{1-x-y}N$, inclusive of x=0, y=0 and; x= y=0;

forming a P-layer of P-type nitrogen-III Group compound semiconductor satisfying formula Al_xGa_vIn_{1-x-v}N; and

forming between said N-layer and said P-layer an intervening layer of nitrogen-III Group compound semiconductor satisfying the formula A1_xGa_yIn_{1-x-y}N, said intervening layer being doped with a P-type dopant.

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TECHNOLOGY CENTER R3700

MANABE et al. -- Application No. 09/783,035

21. (New) The method according to claim 20, wherein said intervening layer comprises a Zn-doped layer.